

**[0030]** In accordance with an aspect of the present disclosure, an air conditioner (AC) includes a housing having an inlet and an outlet; a heat exchanger arranged inside the housing; a main fan for drawing air at the inlet to be subject to heat exchange with the heat exchanger, and discharging the heat-exchanged air out of the outlet; and a drain tray arranged to collect water condensed at the heat exchanger, wherein the drain tray comprises a drain tray outlet through which air to be discharged to the outlet passes, and a discharging guide rib arranged in the drain tray outlet.

**[0031]** The discharging guide rib may include a first discharging guide rib extending in a first direction in which the drain tray outlet extends and a second discharging guide rib extending in radial second direction different from the first direction.

**[0032]** The housing may include a housing discharging guide rib arranged to extend in the second direction to correspond to the second discharging guide rib.

**[0033]** In an aspect of the present disclosure, an air conditioner (AC) includes a housing having an inlet and an outlet; a heat exchanger arranged inside the housing; a main fan for draw air at the inlet to be subject to heat exchange with the heat exchanger, and discharging the heat-exchanged air out of the outlet; a drain tray arranged to collect water condensed at the heat exchanger and having an opening through which air sucked into the inlet passes; and a control case arranged outside of a perimeter of the opening in the radial direction to house electronic parts and having a curved part to correspond to the perimeter of the opening.

**[0034]** The AC may further include a suction guide combined onto the inlet and having a suction path to guide air drawn through the inlet to the main fan.

**[0035]** The control case may be arranged between the drain tray and the suction guide.

#### BRIEF DESCRIPTION OF THE DRAWINGS

**[0036]** The above and other objects, features and advantages of the present disclosure will become more apparent to those of ordinary skill in the art by describing in detail exemplary embodiments thereof with reference to the accompanying drawings, in which:

**[0037]** FIG. 1 shows an air conditioner (AC) indoor unit, according to an embodiment of the present disclosure;

**[0038]** FIG. 2 shows a side cross-sectional view of the AC indoor unit of FIG. 1;

**[0039]** FIG. 3 is an enlarged view of part 'O' of FIG. 2;

**[0040]** FIG. 4 is a cross-sectional plane view cut along line I-I of FIG. 2;

**[0041]** FIG. 5 is a cross-sectional plane view cut along line II-II of FIG. 2;

**[0042]** FIG. 6 is a block diagram of an AC control system, according to an embodiment of the present disclosure;

**[0043]** FIG. 7 is a side cross-sectional view of an AC indoor unit, according to an embodiment of the present disclosure;

**[0044]** FIG. 8 is a side cross-sectional view of an AC indoor unit, according to an embodiment of the present disclosure;

**[0045]** FIG. 9 is a cross-sectional plane view of an AC indoor unit, according to an embodiment of the present disclosure;

**[0046]** FIG. 10 is a cross-sectional plane view of AC indoor unit, according to an embodiment of the present disclosure;

**[0047]** FIG. 11 shows an AC indoor unit, according to an embodiment of the present disclosure;

**[0048]** FIG. 12 shows a side cross-sectional view of the AC indoor unit of FIG. 11;

**[0049]** FIG. 13 is a perspective view of an AC indoor unit, according to an embodiment of the present disclosure;

**[0050]** FIG. 14 is a side cross-sectional view illustrating a part of the AC indoor unit of FIG. 13;

**[0051]** FIG. 15 shows an example of an inflow hole of an air flow control device of the present disclosure, in comparison with that of FIG. 4, the inflow hole being formed of multiple holes;

**[0052]** FIGS. 16 and 17 show an example of an inflow hole of an air flow control device of the present disclosure, in comparison with that of FIG. 4, the inflow hole being formed to have a variable width;

**[0053]** FIG. 18 shows an example of an inflow hole of an air flow control device of the present disclosure, in comparison with that of FIG. 4, the inflow hole being formed of multiple slits that extend in the radial direction;

**[0054]** FIG. 19 shows an example of an inflow hole of an air flow control device of the present disclosure, in comparison with that of FIG. 4, the inflow hole being formed of multi-slits;

**[0055]** FIG. 20 is a cross-sectional view illustrating a key part of an AC indoor unit according to an embodiment of the present disclosure, in comparison with that of FIG. 7;

**[0056]** FIG. 21 is a cross-sectional view illustrating a key part of an AC indoor unit according to an embodiment of the present disclosure, in comparison with that of FIG. 20;

**[0057]** FIG. 22 is a cross-sectional view illustrating a key part of an AC indoor unit according to an embodiment of the present disclosure, in comparison with that of FIG. 20;

**[0058]** FIG. 23 is a cross-sectional view illustrating a key part of an AC indoor unit according to an embodiment of the present disclosure, in comparison with that of FIG. 20;

**[0059]** FIG. 24 is a cross-sectional view illustrating a key part of an AC indoor unit according to an embodiment of the present disclosure, in comparison with that of FIG. 21; and

**[0060]** FIG. 25 is a cross-sectional view illustrating a key part of an AC indoor unit according to an embodiment of the present disclosure, in comparison with that of FIG. 21.

**[0061]** FIG. 26 is a perspective view of an AC, according to an embodiment of the present disclosure.

**[0062]** FIG. 27 is a bottom view of the AC shown in FIG. 26.

**[0063]** FIG. 28 is an exploded view of the AC shown in FIG. 26.

**[0064]** FIG. 29 is a side cross-section cut along the line from I to I as shown in FIG. 27.

**[0065]** FIG. 30 is an embodiment of the AC of FIG. 26;

**[0066]** FIG. 31 is an embodiment of the AC of FIG. 26;

**[0067]** FIG. 32 is an embodiment of the AC of FIG. 26;

**[0068]** FIG. 33 is a perspective view of a drain tray shown in FIG. 28;

**[0069]** FIG. 34 is an unfolded view of a discharging guide rib shown in FIG. 33;

**[0070]** FIG. 35 is an embodiment of the discharging guide rib shown in FIG. 34;

**[0071]** FIG. 36 is an embodiment of the discharging guide rib shown in FIG. 33;

**[0072]** FIG. 37 is an expanded view of part 'O' indicated in FIG. 29;